

Gold King Mine Monitoring Results

August 11, 2015

Overview

- Monitoring locations map
- Monitoring results and what they can tell us about:
 - Human Health (drinking water and recreation)
 - Agriculture (livestock watering and irrigation)
 - Fish and aquatic insects (aquatic life)
- Monitoring next steps



Gold King Mine Spill - Bakers Bridge

Gold King Mine

Silverton

Bakers Bridge

Durango

Legend

- Animas River
- Gold King Mine Sampling (WQCD)
- Animas Sampling 2015 (EPA)



Author: Chris Tindle, Scott McGowan
Date: 8/11/2015
Document Path: L:\EDU\Project10_2\GoldKingline.mxd



Use constraints: There are no restrictions and legal prerequisites for using this data set. The state of Colorado assumes no liability to the complainers, correctness, or fitness for use of this data set.



Gold King Mine Spill - Silverton

Gold King Mine

Silverton

Cement
Creek

Legend

- Animas River
- Gold King Mine Sampling (WQCD)
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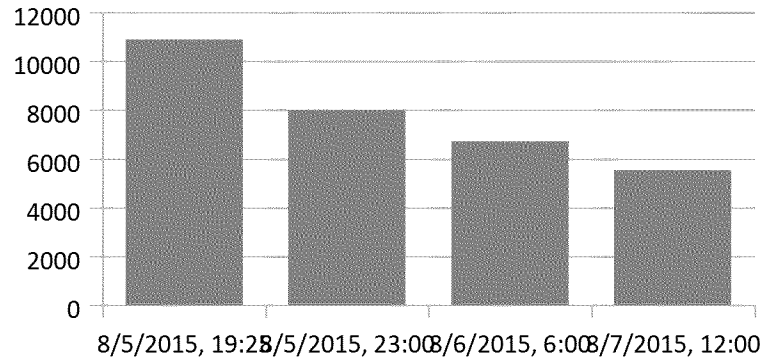


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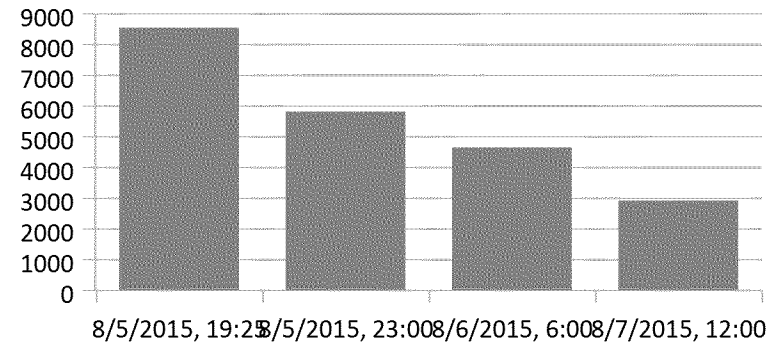


Cement Creek - Time Series

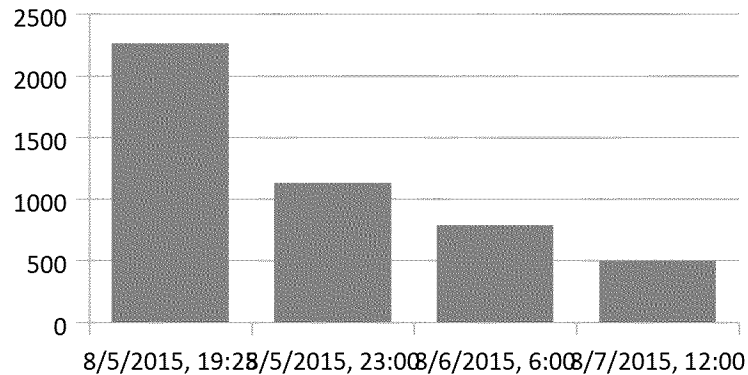
Manganese (dis)



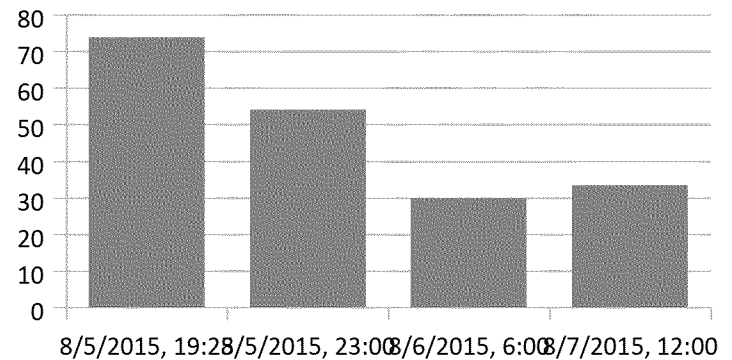
Zinc (dis)



Copper (dis)



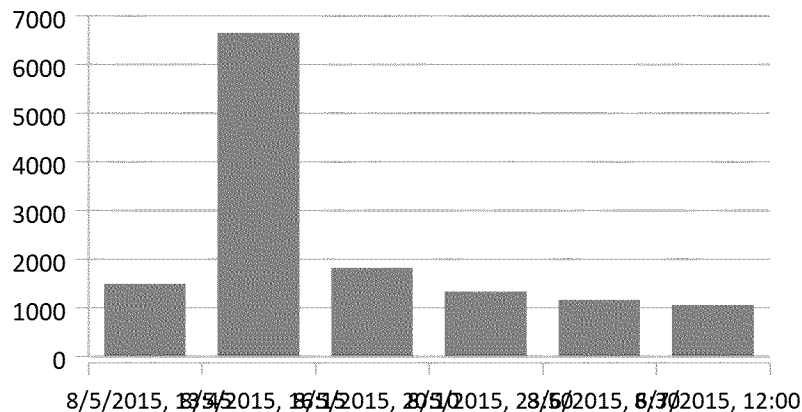
Lead (dis)



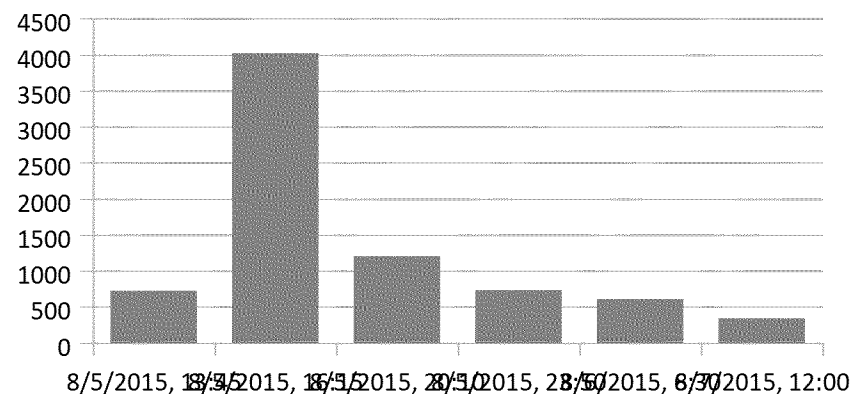
Animas River (below Silverton)

Time Series

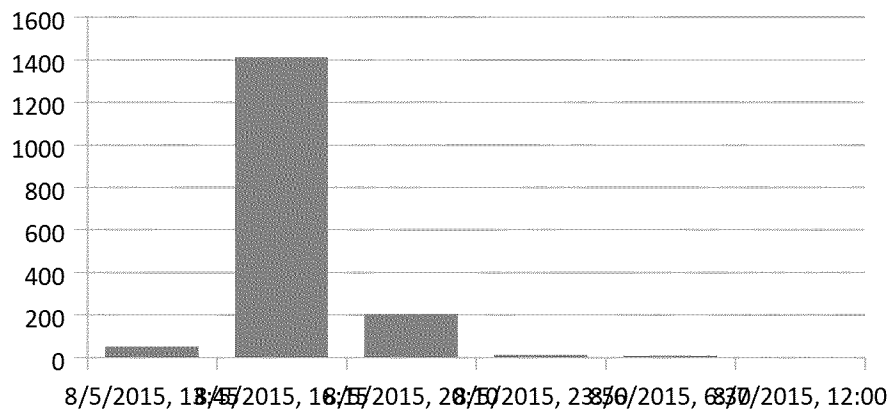
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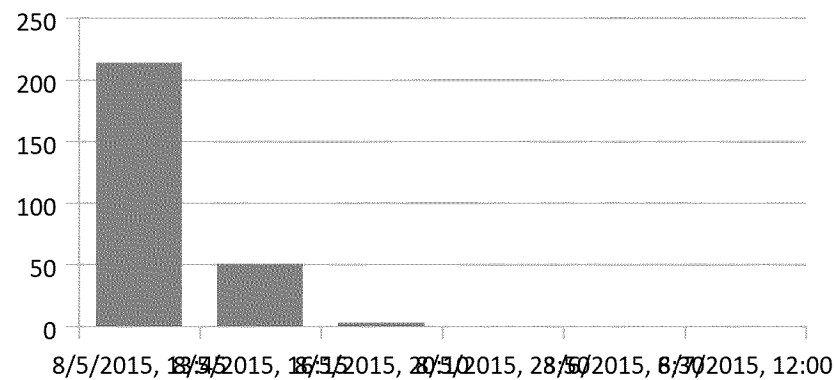
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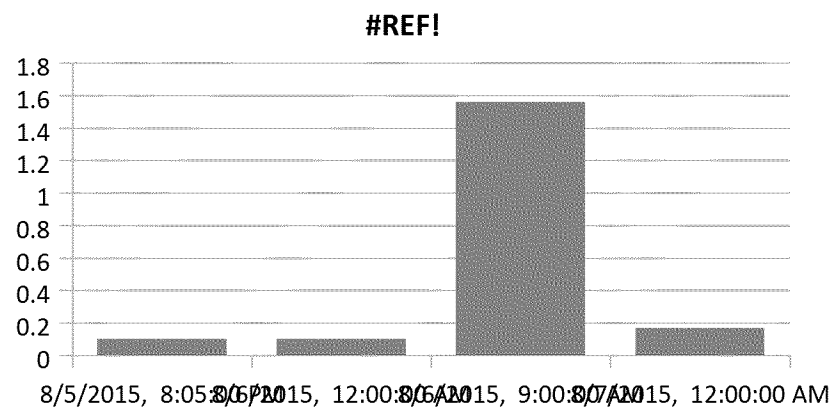
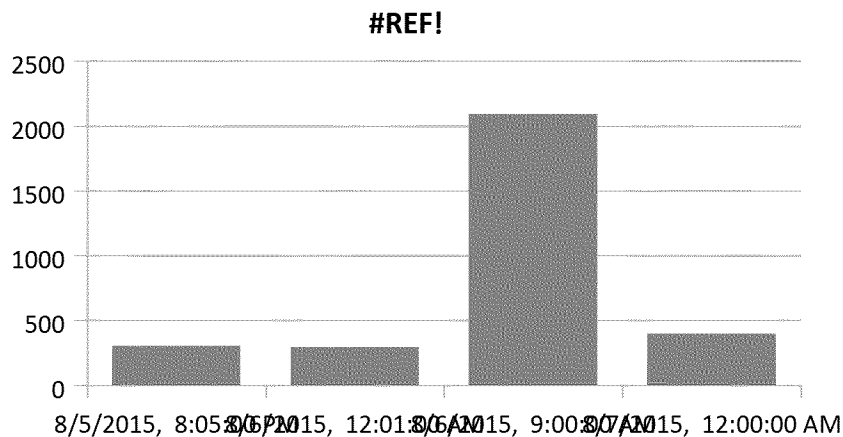
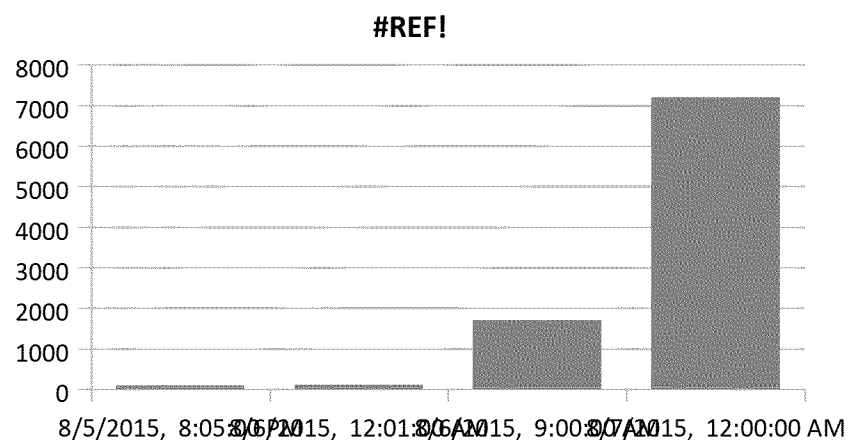
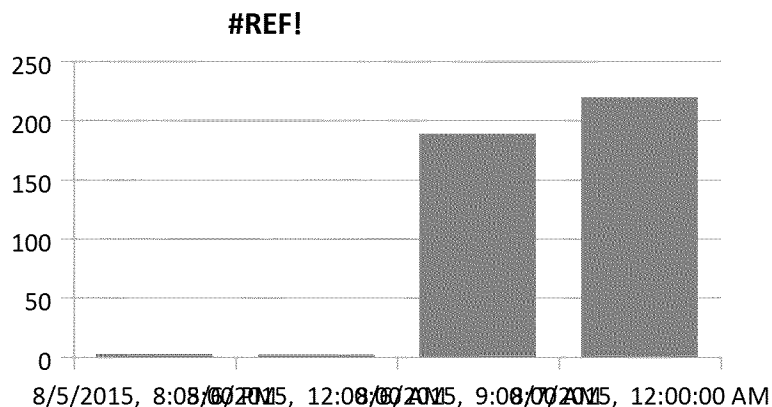
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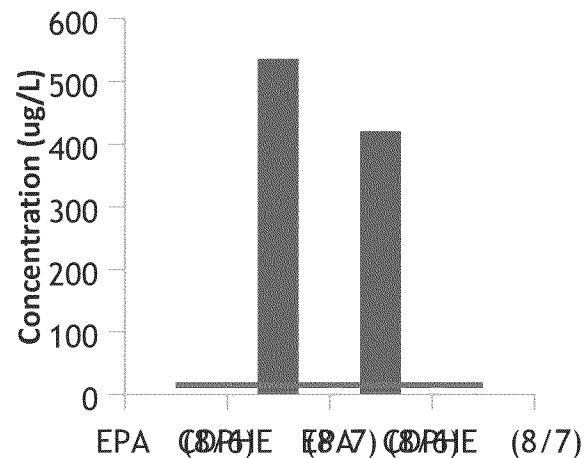
Lead (dis)



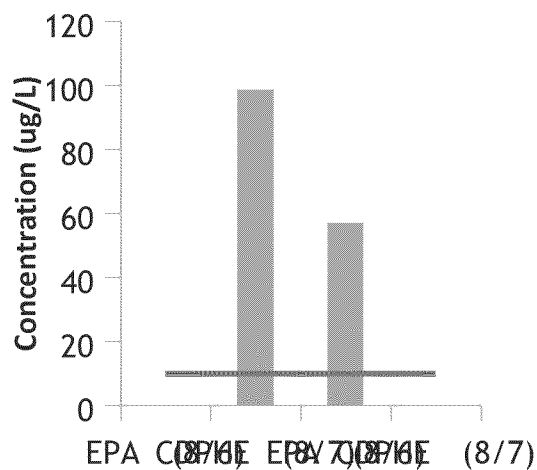
Animas River (Baker's Bridge)- Time Series



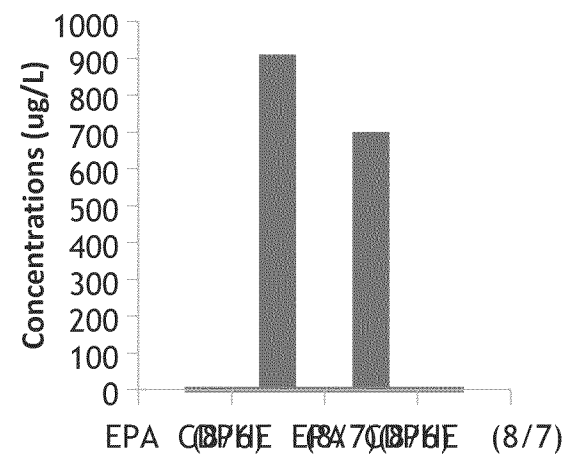
Site 1 Cement Creek: Human Health



Lead
Standard (Drinking Water)

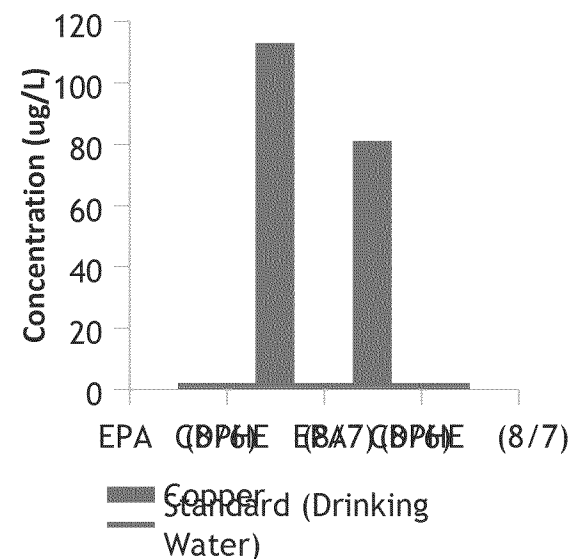
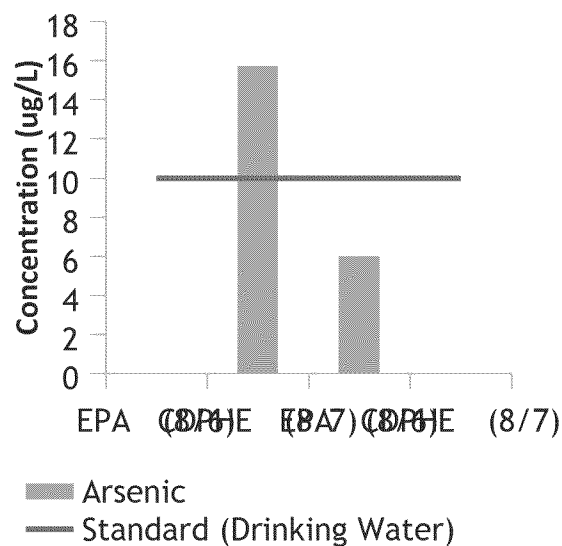
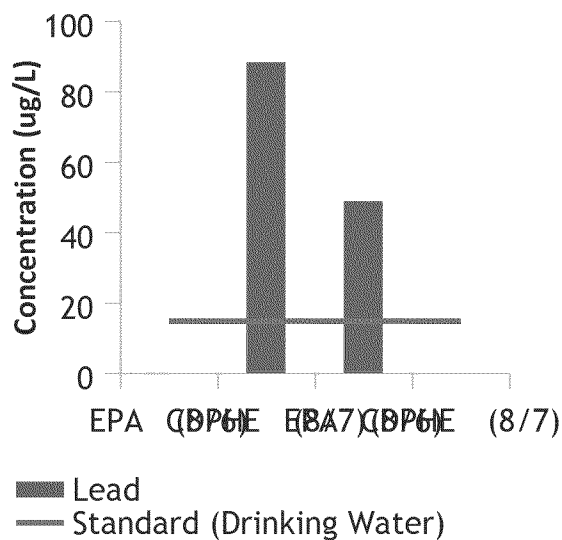


Arsenic
Standard (Drinking Water)

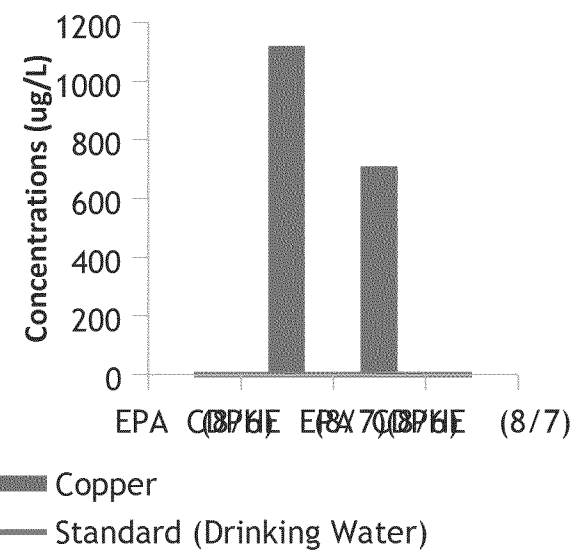
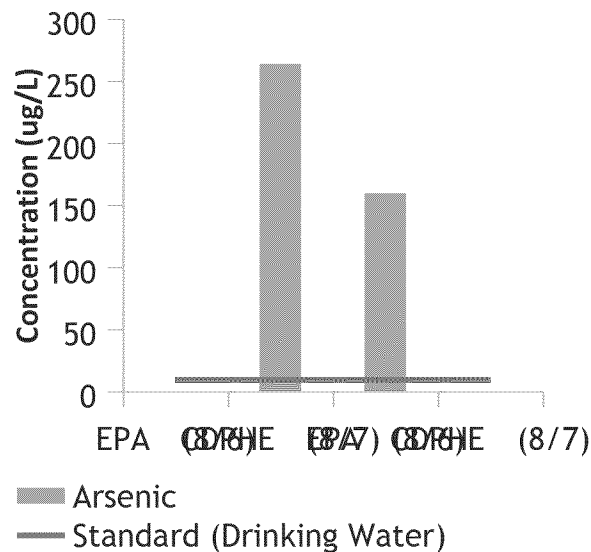
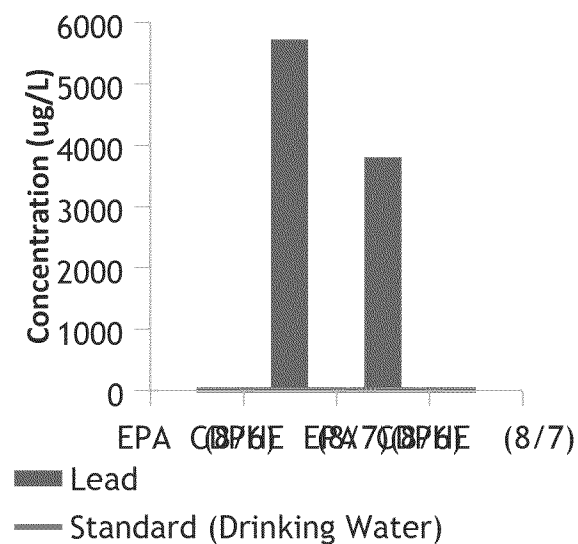


Copper
Standard (Drinking Water)

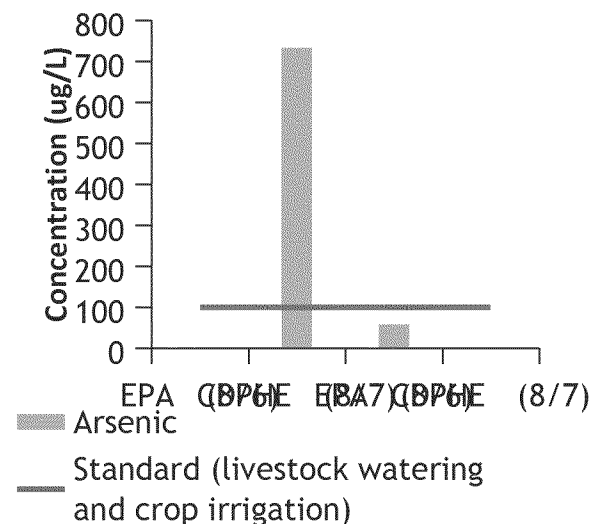
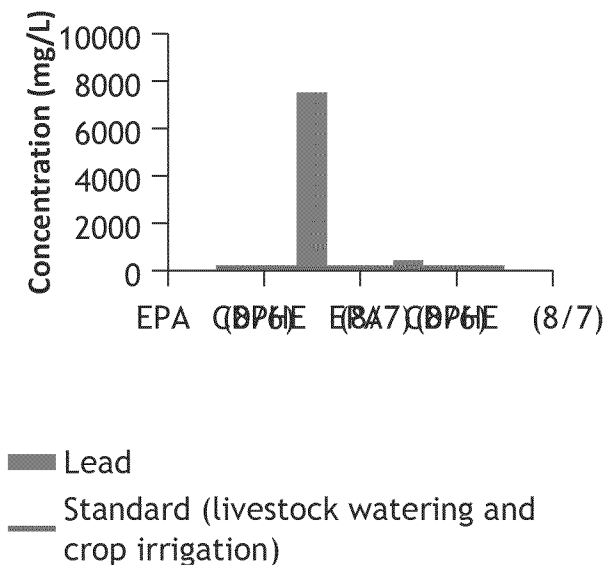
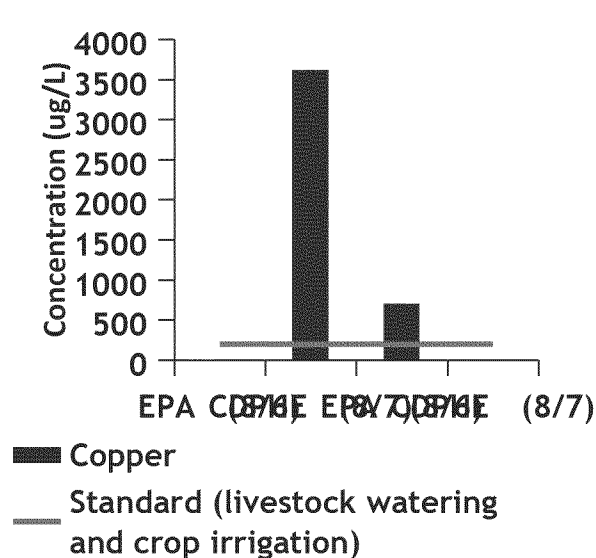
Site 2 Animas River Below Silverton: Human Health



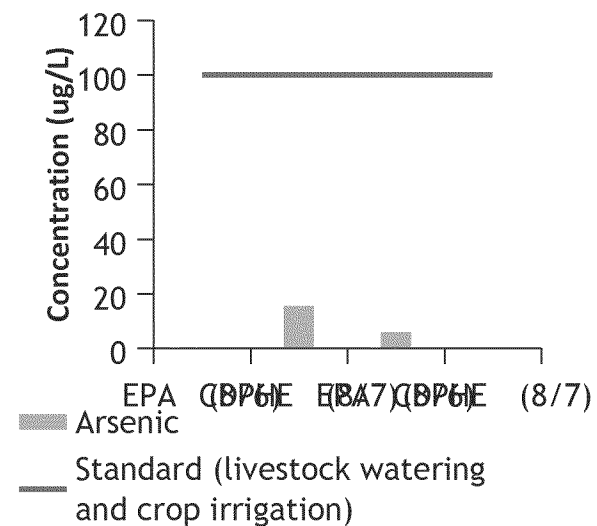
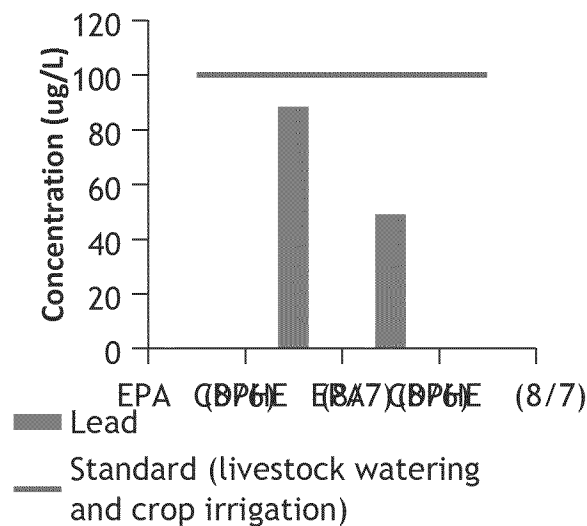
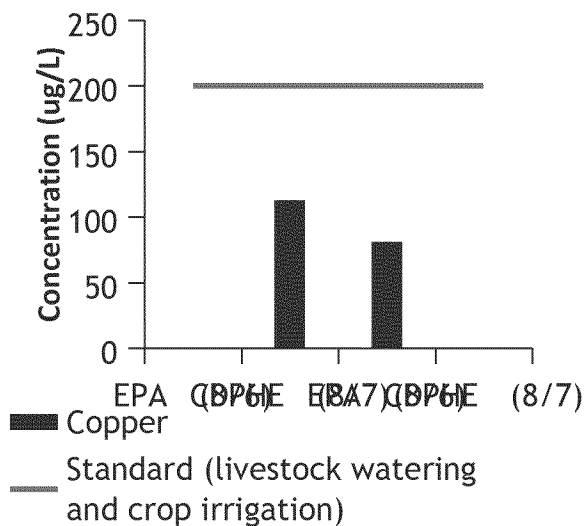
Site 3 Animas River at Bakers Bridge: Human Health



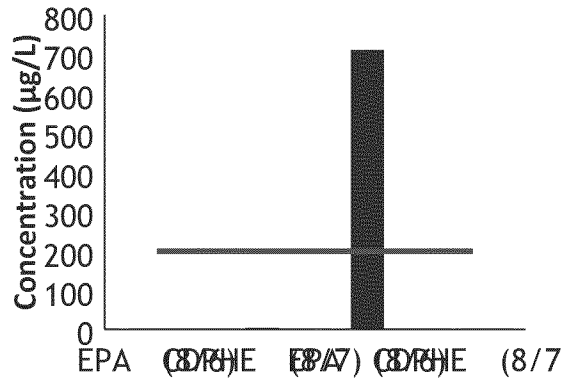
Site 1 Cement Creek: Livestock Watering and Irrigation



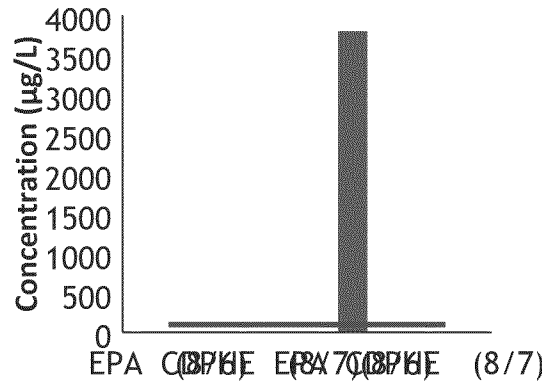
Site 2 Animas River Below Silverton: Livestock Watering and Irrigation



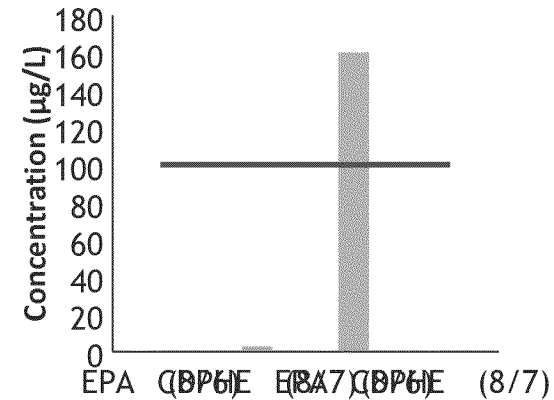
Site 3 Animas River at Bakers Bridge: Livestock Watering and Irrigation



■ Copper
— Standard (livestock watering and crop irrigation)

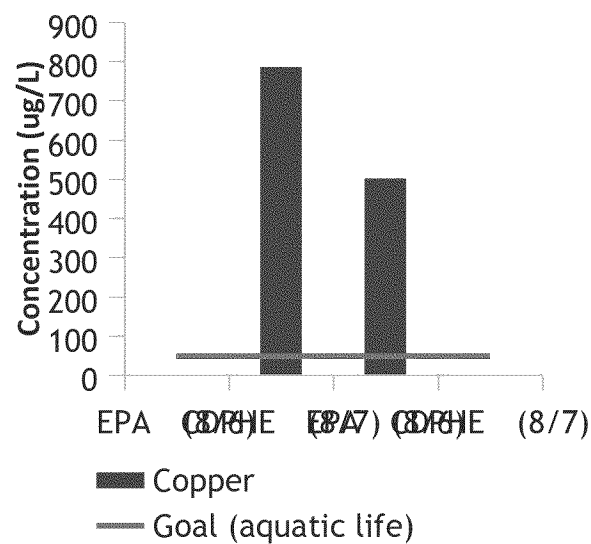
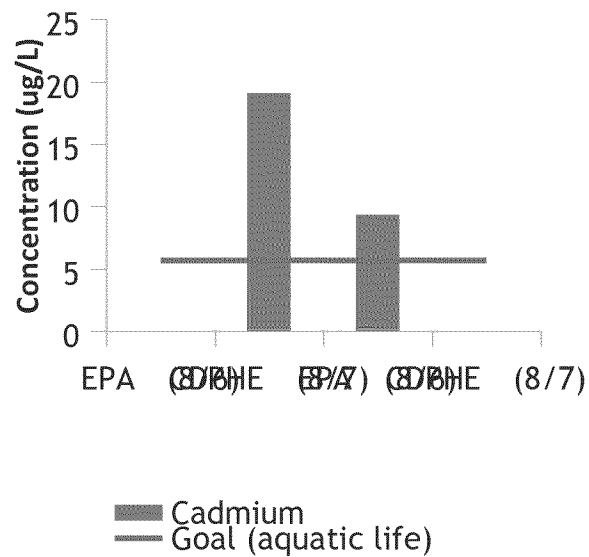
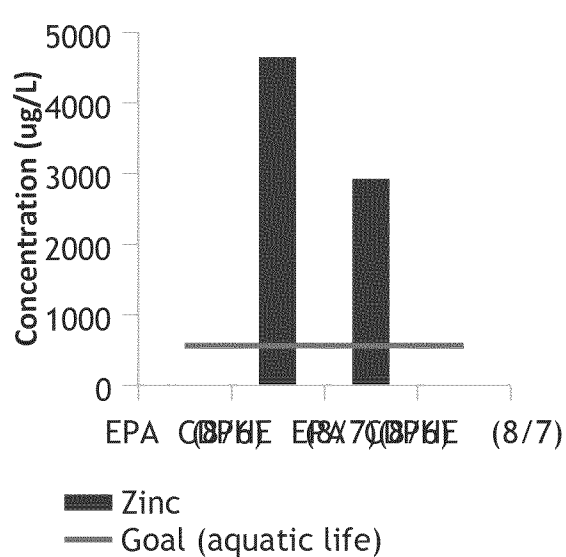


■ Lead
— Standard (livestock watering and crop irrigation)

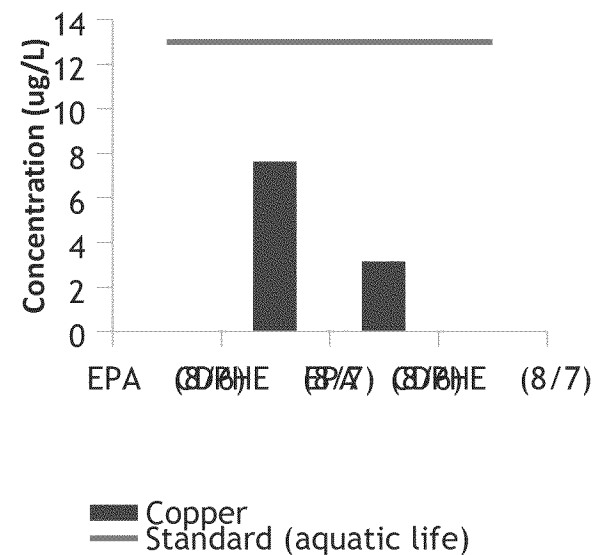
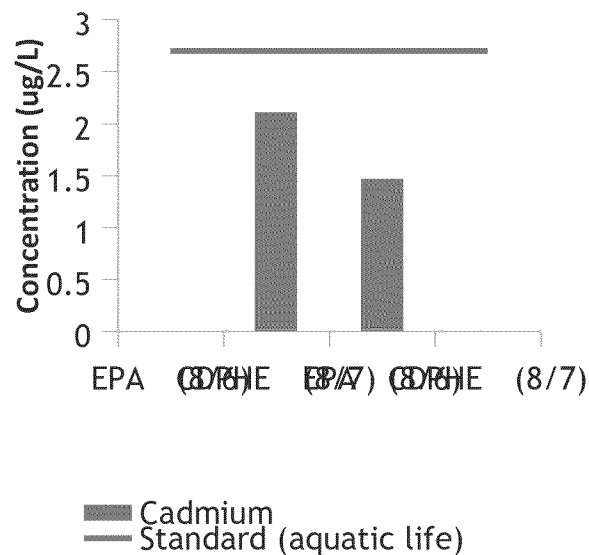
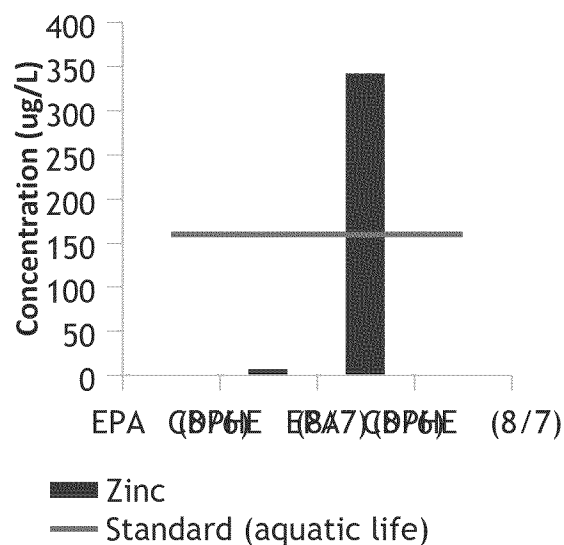


■ Arsenic
— Standard (livestock watering and crop irrigation)

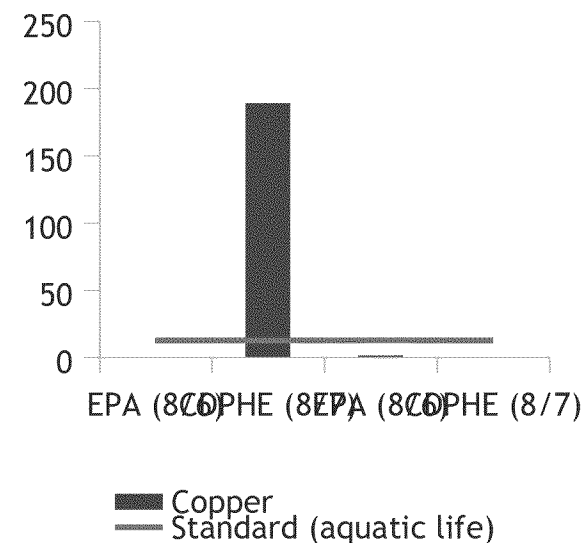
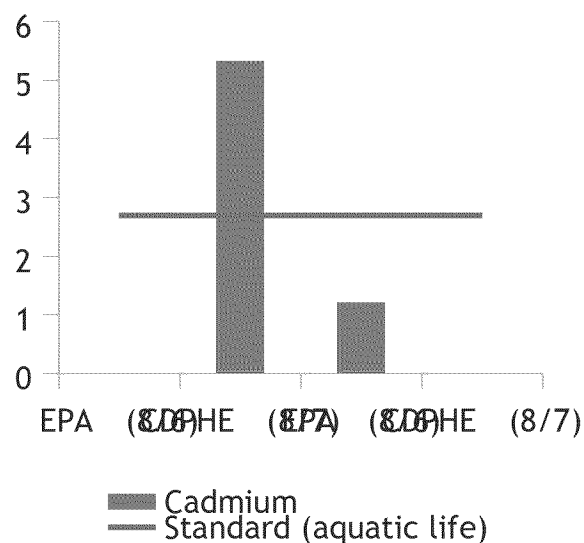
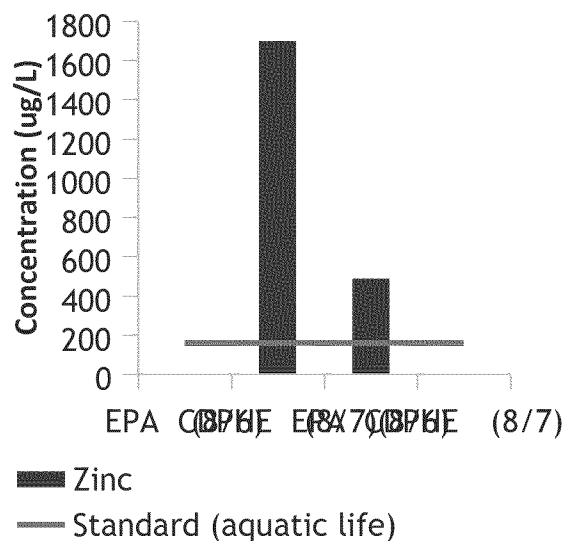
Site 1 Cement Creek: Aquatic Life



Site 2 Animas River Below Silverton: Aquatic Life



Site 3 Animas River at Bakers Bridge: Aquatic Life



Monitoring Next Steps

- We will continue to monitor and will compare this to historic data
- We will report this information as soon as it is available
- The information gathered this week will continue to inform our recommended next steps regarding use of the river for recreation, drinking water, and agriculture

